

# SPP

## STRATEGIC PARTNERSHIP PROGRAM



## Message from School Chair

In the 21st century, business moves literally at the speed of light. Even as the world shrinks through the continual advance of new technologies, the problems facing industry and government become commensurately more complex. Responding to global markets, industry is forced to negotiate a web of political and cultural boundaries even as major economic, environmental, and social challenges increasingly stretch across international borders.

Whether it's a global supply chain, an emerging international market, or any number of massive data sets generated from dozens of databases in an equal number of nations, the power to apply the latest computation-based innovation is vital to compete. Almost every day, the internet produces a larger set of data than it did the day before. Real market advantages lie hidden in those data - waiting for whomever has the power to find them.

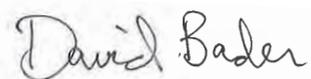
Enter Georgia Tech's School of Computational Science and Engineering (CSE). Founded in 2005, the School of CSE solves real-world problems in science, engineering, health informatics, homeland and national security, and social domains by using high-performance computing, big data, and large-scale analytics. Our world-class faculty and top-notch graduate students synthesize principles from computing, mathematics, science, and engineering to develop innovative solutions to the world's newest, oldest, and biggest problems.



CSE students, researchers, and partners all benefit from our ecosystem of innovation that integrates the existing assets of Georgia Tech's Technology Square with new opportunities in interdisciplinary research, commercialization, and sustainability. This ecosystem will expand January 2019 when CSE moves to the state-of-the-art Coda building. The CSE will be the only

school moving in its entirety to the new building which will serve as a collaborative hub with industry partners, major companies, and startups. In Coda, the premier facility in the United States for computational research, data science, and high-performance computing, CSE students and faculty will work in a "melting pot" environment which will offer a centralized collaborative atmosphere unparalleled in the south east.

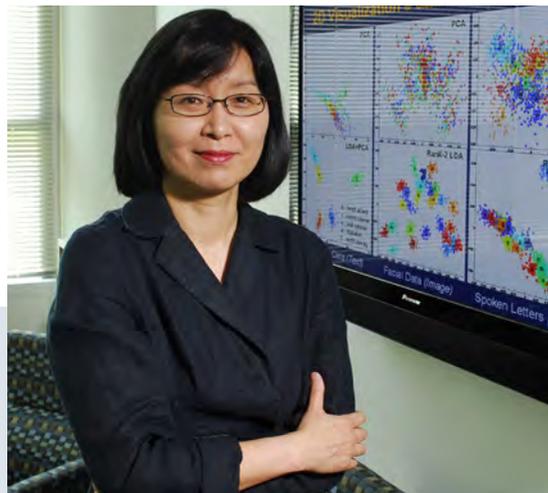
By working with the CSE, we can target your specific research needs, offer a competitive advantage, and affect your bottom line. In doing so, CSE delivers the tangible benefit of a highly trained computational workforce and rapidly advancing research programs that keep pace with reality. As you continue reading, I hope you'll decide to become part of our global - and growing - community.

A handwritten signature in black ink that reads "David Bader".

**David Bader**

Professor and Chair

School of Computational Science and Engineering



# A Strategic Advantage for the Modern World

## CSE Strategic Partnership Program

The Strategic Partnership Program (SPP) creates a vibrant, mutually-beneficial link between CSE and industry. By joining SPP, your company will have direct access to some of the world's top emerging computational scientists and engineers. From this position you will be able to forge the kind of private-public partnerships that have proven essential in tackling complex real-world problems through scientific research.

As a CSE SPP member, you will be able to recruit graduate students from a Top 10 computing program to your workforce and even help shape the high-skill workers of tomorrow through CSE curriculum advice. You will be in the perfect position to provide the feedback we need to keep our program application-focused, even as we ground our students in bedrock scientific knowledge and practice.

## Benefits of Partnership

- Forge research relationships with CSE faculty at an annual members-only SPP meeting
- Keep up with the latest CSE research through our news and announcements of seminars & events
- Connect directly to your workforce recruitment pool through email access to CSE students
- Review the most promising recruitment prospects with a CSE Graduate Student Resume Book
- Get to know our faculty and graduate students face-to-face in school-hosted lunches and informal meetings
- Shape your future computational & data scientist workforce with invited feedback to the CSE graduate program curriculum
- Extend your brand to the wider CSE community through placement of your corporate logo on CSE website and Strategic Partners wall

In addition to the tangible benefit of a highly-trained computational workforce for the 21st century, what other perks do CSE SPP partners enjoy? How about a competitive advantage? Companies that are able to stay atop the Big Data tsunami find that it can carry them a long, long way in the marketplace. CSE research has led to breakthroughs in computational power and analytics that result in real, measurable impacts across application domains.

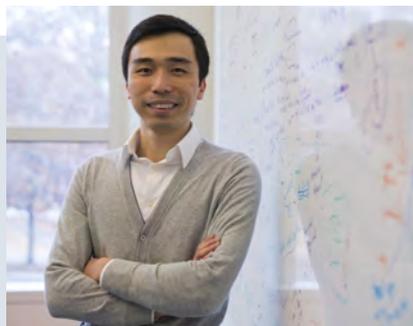
Partners benefitting from research collaborations with the School of CSE represent a variety of sectors including:

- Health care & biomedical
- Materials & manufacturing
- National security—including cybersecurity
- Urban systems & planning
- Sustainability & alternative fuels
- Internet & social media
- High performance computing
- Massive data analytics

Whether your company operates in these domains or others, the School of CSE is eager to work side-by-side with you to make the power of Big Data serve your bottom line.

## Contact

Director of Development  
Georgia Tech College of Computing  
801 Atlantic Drive  
Atlanta, Georgia 30332-0280  
404-385-2384  
[cocdirectorofdevelopment@gatech.edu](mailto:cocdirectorofdevelopment@gatech.edu)



**CURRENT PARTNERS:**



Booz | Allen | Hamilton



**Pacific Northwest**  
NATIONAL LABORATORY

## Computational Science & Engineering Faculty



**Kumar Aatish**  
Research Scientist II



**Srinivas Aluru**  
Professor  
Fellow: AAAS, IEEE  
NSF CAREER Award



**David Bader**  
Professor & Chair  
Fellow: AAAS, IEEE  
NSF CAREER Award



**Mark Borodovsky**  
Regents' Professor  
Joint with Department of  
Biomedical Engineering



**Ümit Çatalyürek**  
Professor  
Fellow: IEEE



**Polo Chau**  
Associate Professor\*



**Edmond Chow**  
Associate Professor  
PECASE Award



**Barry Drake**  
Senior Research  
Scientist (Joint with  
GTRI)



**Jon Duke**  
Principal Research  
Scientist  
(Joint with GTRI)



**Richard Fujimoto**  
Regents' Professor  
IEEE Fellow



**Oded Green**  
Research Scientist II



**Felix Herrmann**  
Professor  
Joint Appointment (EAS)



**Tobin Isaac**  
Assistant Professor



**Surya Kalidindi**  
Joint Professor  
Fellow: ASME, ASM, TMS  
Humboldt Research  
Award



**Haesun Park**  
Professor  
Fellow: IEEE, SIAM



**David Sherrill**  
Professor  
Joint with School of  
Chemistry & Biochemistry  
Fellow: AAAS, APS, ACS



**Le Song**  
Associate Professor  
NSF CAREER Award



**Jimeng Sun**  
Associate Professor



**Rich Vuduc**  
Associate Professor  
NSF CAREER Award



**Hongyuan Zha**  
Professor



**Jason Riedy**  
Senior Research  
Scientist



**Jeffrey Valdez**  
Research Scientist II



**Jeffrey Young**  
Research Scientist II  
(Split CS/CSE)

\*Effective Fall 2018

CREATING THE NEXT<sup>®</sup>

**Georgia  
Tech**  Computational Science  
and Engineering

[cse.gatech.edu](https://cse.gatech.edu)

Georgia Tech College of Computing  
266 Ferst Drive NW  
Atlanta, Georgia 30332-0280

 [cse.gatech.edu](https://cse.gatech.edu)